

SPONSORING AGENCIES

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RESEARCH
CLIMATE SCIENCE
LAND PLANNING STRATEGIES
ADAPTATION APPLICATIONS

Call for Proposals is available at <http://nspires.nasaprs.com/>

*Climate and Biological Response: Research and Applications
(ROSES-2010 A.30)*

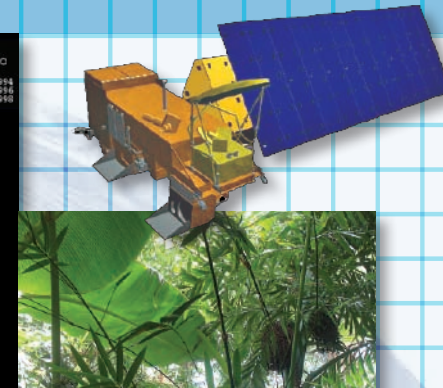
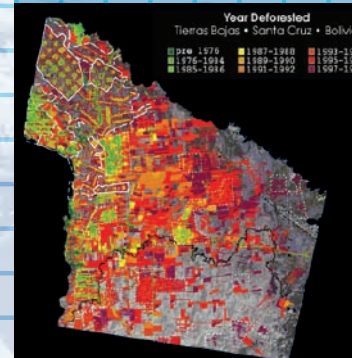
Earth Science for Society: An Interagency Effort to Apply Earth
Science Data to Improve Scientific Knowledge and Enhance
Natural Resource Management



U.S. INTERAGENCY CALL FOR PROPOSALS



CLIMATE AND BIOLOGICAL RESPONSE: RESEARCH AND APPLICATIONS



Earth Science for Society: An Interagency Effort to Apply Earth
Science Data to Improve Scientific Knowledge and Enhance
Natural Resource Management

Full Text of this Call for Proposals is available at <http://nspires.nasaprs.com/>
(Under the Solicitations link, look for ROSES-2010 Appendix A.30)

Society has access to a growing number of climate data records assembled from satellite, aircraft, and surface-based observations. We're starting to amass enough data to get a sense of how certain key environmental parameters related to climate have changed over time. But there's still much uncertainty about the effects of a changing physical climate on biological systems. We are confident that climate variability and change are having and will continue to have significant impacts on biological systems, but our ability to quantify and predict these impacts is limited.

We must improve our understanding of the connections between changes in climate and changes in biological systems. Doing so will not only help improve our basic understanding of the effects of climate variability and change, it will also help us develop tools for managing species and ecosystems, and their associated landscapes and seascapes, for which we are responsible.

This U.S. Interagency Call for Proposals seeks innovative ways to bring together resources to study how ecosystems are responding to changes in climate using the following tools:

- time series of climate observations,
- time series of biological observations,
- ecological models,
- climate models, and
- relevant biophysical datasets (e.g., soils, topography, geology, and biogeochemistry).

While this solicitation is not exclusively focused on public lands and waters, proposals addressing these managed areas are especially welcome given the participation of land management agencies in this call for proposals.

This solicitation seeks two types of proposals from multidisciplinary teams: (a) basic research proposals (Type A); and (b) applications proposals to support ecosystem and landscape management (Type B).

It is anticipated that the characteristics and distributions of biological systems—including the distribution and abundance of plant and animal species—will change in response to climate.¹

¹From the Intergovernmental Panel on Climate Change (IPCC) 2007 Working Group II 4th Assessment Report—see www.ipcc.ch/.

The following guidelines apply to **all** proposals.

- Proposals in both terrestrial and aquatic (freshwater and marine) environments are welcome.
- Proposals must incorporate remotely-sensed data.
- Proposers must indicate whether they are Research (Type A) or Applications (Type B) proposals or both. While some proposals may span both Types A and B, this solicitation anticipates that most proposals will be either Type A or Type B.
- All successful project teams, whether Research or Applications, should plan on participating in annual NASA-hosted team meetings within the U.S. that will bring together both Research and Applications project personnel and facilitate the general transition of research results into applications activities.
- The use of *sensor webs* (interconnected networks of sensors) and/or the incorporation of citizen science, social networking, and crowdsourcing techniques to enhance observational or modeling components of proposals is most welcome.

KEY INFORMATION

Funding Opportunity:

NASA Research Opportunities in Space and Earth Sciences for 2010 (ROSES-2010) Appendix A.30

NNH10ZDA001N-BIOCLIM

Purpose:

This solicitation seeks proposals that offer innovative approaches to: (1) bring together time series of climate observations, time series of biological observations, and ecological and climate models to study how elements of biological systems are responding to changes in climate; and (2) place this information in the hands of decision makers to help them more effectively plan strategies for managing the impacts of a changing climate.

Release Date:

February 12, 2010

Notice of Intent to Propose Due:

June 11, 2010

Proposals Due:

July 20, 2010

On-line Information for Proposal Search, Preparation, and Submission:

<http://nspires.nasaprs.com/>